

ALL GAMMA INCLUDING LOW RANGE & X-RAY PORTABLE ION CHAMBER

Model ~ TBM-IC-LR

FEATURES:

- MEASURES DOWN TO BACKGROUND
- FIVE DECADES
- MEASURES ALL GAMMAS INCLUDING LOW ENERGY GAMMAS AND X-RAYS
- SEES AXIALLY BELOW 5 KEV GAMMA OR X-RAY
- SEES ALPHA, BETA, GAMMA, X-RAY
- LARGE ION CHAMBER: 2,000 cm³
- DIGITAL READOUT:
8 digit-rate, 8 digits integrate
- WIDE RANGE: 0.01 mR/h to 1.0 R/h
(1.0 μSv/h to 10 Sv/h)
- DOSE RATE & TOTAL DOSE READ OUT

OPTIONAL: RS-232 SERIAL PORT

- LIGHTWEIGHT; TBM PACKAGE
- FLAT RESPONSE - FREE AIR ION CHAMBER
- **IP 63; CE MARK**



TBM-IC-LR

APPLICATION:

A fast, sensitive portable ion chamber for ALL Gammas including Low Energy Gammas and X-Rays. The TBM-IC-LR is based on stable, essentially drift-free electrometer technology.

DESCRIPTION:

- A 5" dia x 7.5" long air ion chamber is coupled to a stable solid state MOSFET input electrometer.
- The built in A to D converter reads out directly in mR/h or mR.
- **Rate Range** is 0.01 mR/h to 1.0 R/h (1.0 μSv/h to 10 Sv/h) in a single range.
- **Dose Range** is 0.05 μR – 100,000 μR (0.05 μSv to 0.0001 Sv) in a single range.
- 430 mg/cm² graphite lined methacrylate walls provide for accurate "air equivalent" response.
- Chamber 2,000 cm³
- Thin (0.5 mg/cm²) Mylar window allows high sensitivity readings for:
 - Alpha & Low Energy Betas such as C¹⁴
 - Low Energy Gammas & X-Rays
 - Higher Energy Betas & Gammas

***Note:** TA also makes ion chambers that measure up to 10 million R/hr

See [ION CHAMBER COMPARISON CHART](#)



TECHNICAL ASSOCIATES

7051 ETON AVENUE, CANOGA PARK, CALIFORNIA 91303

PHONE: 818-883-7043 | FAX: 818-883-6103

SALES@TECH-ASSOCIATES.COM | TECH-ASSOCIATES.COM | USNUCLEARCORP.COM

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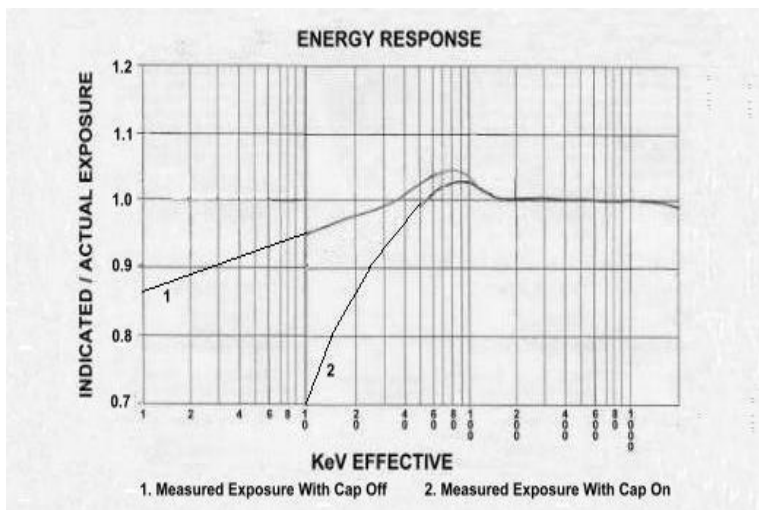
SPECIFICATIONS:

Detector:	Free Air ion chamber 5" dia x 7.5" long. Internal volume 2 liters.
Wall & Cap:	Methacrylate, graphite lined 430 mg/cm ² walls and 540 mg/cm ² cap.
Chamber Volume:	2,000 cm ³
Window:	4" dia. x 0.5 mg/cm ² Mylar
Readout:	LCD 8 digits.
Indicator Lamp:	Green LED 100 pulses/sec per mR/h. Red Over-range Indicator.
Range:	Rate 8 digit 0.01 mR/h to 1 R/h in a single range. (0.1 μSv/h to 0.01 Sv/h) Integrate 8 digits 0.05 μR – 100,000 μR in a single range. (0.5 μSv to 0.0001 Sv)
Electrometer:	Solid State MOSFET input.
Electronics:	A-D converter LCD drivers.
Batteries:	20 ea. (Button) NEDA CR-1220 - shelf life 7 years. 6 ea. (AA) NEDA 15A - 1000hr.

WEIGHT & DIMENSIONS:

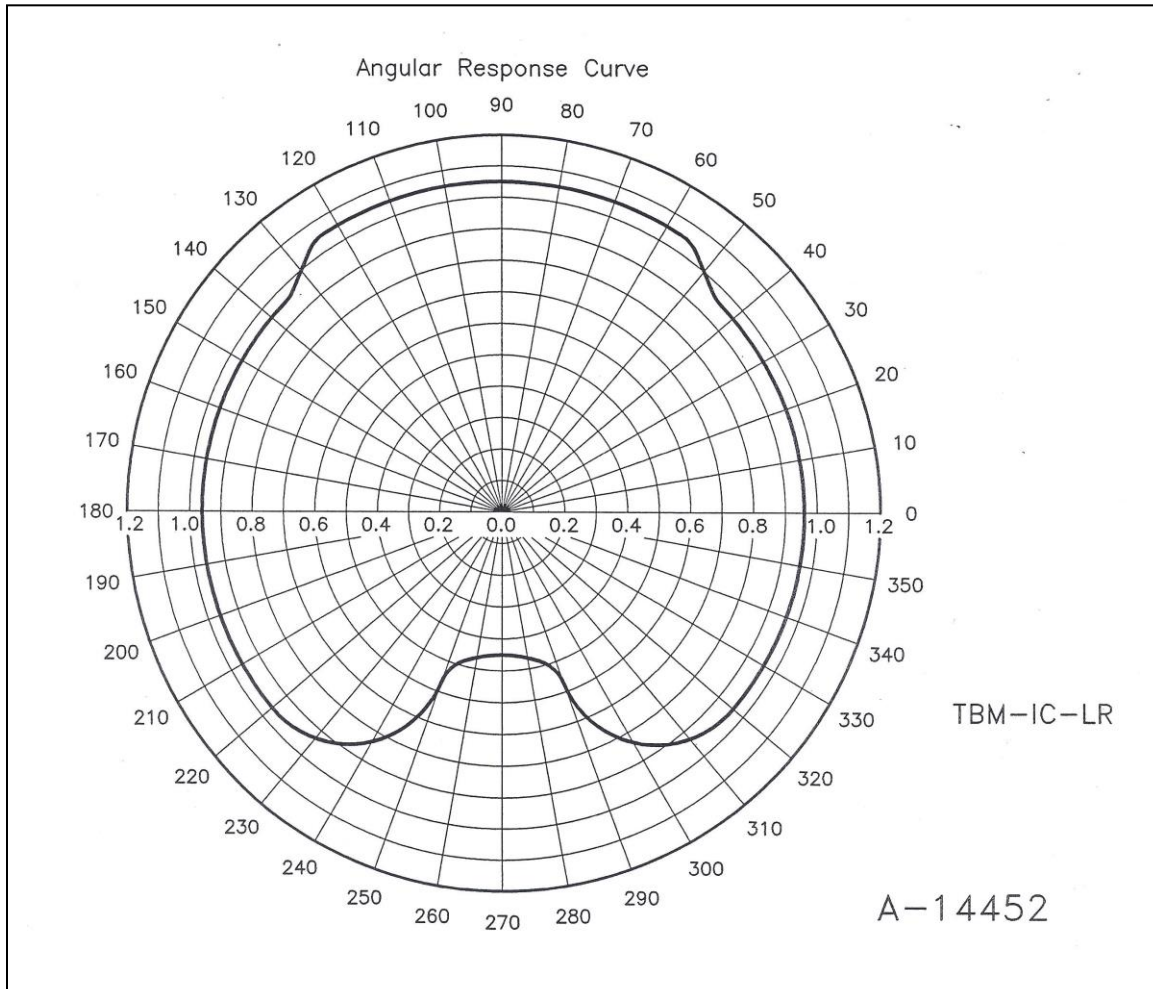
Dimensions:	14" L x 9" H x 5.8" W including handle.
Weight:	2.2 kg. complete with batteries.

OPTIONS:	Readout in SI units: μSv and μSv/h. RS232 Serial Port for Data Download
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